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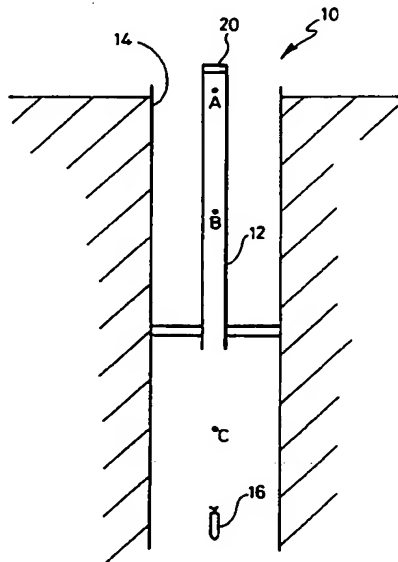
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(54) Title: **DOWNHOLE SENSING APPARATUS WITH SEPARABLE ELEMENTS**

(57) Abstract: A sensing apparatus (16) is provided for use downhole, comprising a housing (22) and sensing means (52, 54, 56, 58) with the housing (22) containing a plurality of separable elements (64) to which data acquired by the sensing means (52, 54, 56, 58) is transferred. The separable elements (64) are releasable from the housing to convey the acquired data to surface. The separable elements have a spherical outer casing (72) of around 1 to 10 cm diameter which surrounds a memory chip (74). The casing (72) has a sealable aperture (76) so that electrical connection to the chip (74) can be established within the housing.

WO 01/04661 A2